

Superior Speed Dome

23X Day & Night, WDR

VVK-300SE



The current state-of-the-art, Superior SpeedDome Day/Night utilizes a 23x optical zoom combined with a 10x digital zoom, providing a 230x total zoom.

Digital signal processing (DSP 6) provides enhanced clarity, color, and detail in well lit or low light Applications from Hitachi.

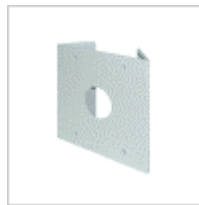
The dome's internal multi-protocol receiver enables the dome to be connected directly to a host of systems including those from other vendors.

Privacy zones can be set up to prevent users from viewing sensitive areas. The dome's advanced alarm handling enables alarms to be processed internally by the dome, externally by the controller, or by both the dome and the controller. A "resume time" feature allows users to establish a default reverting time from activated alarms. A "home position" feature allows the users to establish a default preset for the dome when the dome is not in use. The dome has the ability to provide status on input load voltages, protocol, model name and software version. Other features include wide dynamic range, digital slow shutter mode, dome generated programmable on-screen text of camera ID user definable settings for features such as line-lock, maximum zoom, auto flip, AGC and white balance.

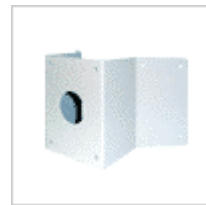
For using outdoor, the Superior Speed Dome VVK-300SE is suitable to be used at outdoor environments. This integrated dome now features a reinforced integrated outdoor housing as heavy duty vandal resistant housing

- 1/4 inch Sony interline CCD Camera with DSP 6 (Hitachi)
- 23x optical zoom with 10x digital magnifier (230x total zoom)
- WDR (Wide Dynamic Range) Technology
- Accepts select competitors' protocols (see your sales representatives for the details)
- Open shutter to capture images in very low light
- Infra red mode
- Continuous autofocus
- Zoom adjusted programming
- Supports RS-485 & RS-422 protocols
- Support 2400 bps, 4800 bps, 9600 bps of baud rates.
- Dome status display
- Up to eight privacy zones
- Programmable presets, group-tour, auto-tour, trace ptz (pattern)
- 128 presets
- Alarm inputs and output
- Alarm resume time programmable
- Automatic home position
- Automatic home position time programmable
- Auto flips and Automatic Gain Control, line-lock and white balance (user-selectable on/off)
- Temperature-controlled interior environment with fans and heater
- Meets IP66 specifications
- Vandal resistant bubble (Poly-carbonate) and aluminum steel construction

* Optional Items



DSC-20PMA
(Pole Mount Adapter)



DSC-20CMA
(Corner Mount Adapter)

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Features

- The camera's 23x optical zoom is combined with 10x digital magnifier, providing a total of 230x zoom.
- The Superior Speed Dome VVK-300SE Day/Night's can clearly distinguish scenes and colors in lighting conditions as low as 0.5 lx and 0.009 lx in black and white mode.
- Wide Dynamic Range (WDR) technology allows every detail to be captured accurately even if one portion of an image is very bright while other portions are dark.
- In addition to D-MAX, RS-485 and RS-422 codes, the dome can be controlled via other select manufacturer's protocols making it a perfect choice for installers wanting to replace older PTZs.
- Up to eight different sized privacy zones can be programmed to prevent users from viewing sensitive areas. The zones automatically change size proportionally.
- The dome indicates how many load voltages have input, protocol, baud rates, what kind of model and software version.
- Users can adjust the white balance manually or have the camera set it automatically. White balance is normally compensated for by the Automatic Tracing White Balance (ATW). However, in some lighting conditions it may be necessary to manually adjust the red and blue settings for optimal viewing.
- Users can set the Automatic Gain Control (AGC) on/off, and manual set the gain. AGC helps compensate for low lighting conditions.
- Focus Preference provides continuous auto focus with manual override.
- Users can set automatic dome flip on/off. With this feature turned on, the dome will automatically 180° when the camera tilts to its lower limits and stays in that position for a brief speed-proportional delay. Turned off, users can still manually flip the dome.
- The dome supports to one ptz trace (pattern). Preprogrammed default spiral pan pattern ("apple peel") covers the entire viewing area.
- The dome supports up to 128 Presets when used with a keyboard controller, DCK-255.
- Zoom Adjusted Program automatically adjusts pan and tilt speeds in proportion to zoom position, even at maximum magnification.
- Alarms can be processed internally by the dome, externally by the controller, or by both the dome and the controller. Each of the dome's alarm inputs can automatically call a preset when the alarm is activated.
- Alarm resume time set can be programmed a dome reverts to a previous operating function after setting time. It allows users to program its 1 second to 180 seconds.
- "Home position" is the position that a dome return to after it remains inactive for a specific period of time. This ensures that even when the dome is unattended, it will always be pointing to a key area of the facility. The user can define that preset and how long (from 1 to 180 seconds) before a dome returns to its home position.
- "Resume Time Set" allows the dome revert to carry out sequence (Swing, Group, Tour) within defined period after someone made unexpected operation. It can be defined 'Home Auto scan', 'Home Group-tour', 'Home Auto-tour' with this function. The reverting time sets 1 second up to 180 seconds.
- The wide dynamic range feature allows for better viewing of scenes with contrasting light levels.
- On-screen text supports six languages: English, Spanish, Portuguese, Polish, Japanese, Chinese.
- Users can set line-lock on or off. Line-Lock is to help prevent vertical rolling in multi-camera applications.
- Vertical sync phase of power when line-lock enabled, making it ideal for single and multi-phase power installations.
- API (Automatic Power Isolation) system is provided for video, and power connection. This API system allows the dome cuts off the overload power and is rebooting by itself automatically, after recovering normal power.
- Aluminum construction and Valdal resistant bubble allows use at outdoor.
- Operate 2 fans and a heater accoring to interior temperature automatically. It allows this dome to be used at extreme temperatures location.
- Meets IP66, CE, FCC

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Technical Specifications

Operational

Manual Pan Speed	0.1° - 300° per second (based on zoom wide position)
Manual Tilt Speed	0.1° - 90° per second
Preset Pan/Tilt Speed	360° per second, maximum
Pan Travel	360° continuous
Tilt travel	92°
Pan/Tilt Accuracy	± 0.1°
Total Zoom	230x
Optical Zoom	22x
Digital Zoom	10x
Zoom Start	Selectable 1x to 12x
Zoom Limit	Selectable 23x, 35x, 46x, 69x, 92x (Zoom Limit default), 115x, 138x, 161x, 184x, 207x, and 230x
WDR on/off.....	OFF, ON, AUTO
Programmable Presets	128
Programmable Group-tours	6
Programmable Auto-tour	1
Programmable PTZ Trace (Pattern)	1
Programmable Privacy Zones	8
Auto Synchronization	
Line-Locked	Remote V-phase adjustment
Internal	Built-in AC-DC rectifier
Address Range	
RS-485/RS-422	1 - 255
Alarm Inputs	4
Alarm Output	1 relay output at 12 VDC/AC, 500 mA
Menu Language	English, Spanish, Portuguese, Polish, Japanese, Chinese

Electrical

Input Voltage	24 VAC, 50/60 Hz Class 2
Design Tolerance	16 to 36VAC, 50/60 Hz
Power Consumption.....	8.4 Watts (Stand By), 12 Watts (MAX) at 24VAC
Power On In-Rush Current	1.0 Amps
Allowable Drop-Out	100 µsec
Overload Protection	
Video	Lower-capacitance Zener suppressor of 6.5V, 1500 watts.
RS-422/RS-485	TVS rated 9.8V/1 A, 500 watts, 8/20 µsec impulse
Power Line	PPTC rated at 120 V, hold current at 1.6 A.

Cameras

NTSC

Effective Pixels	768 (H) X 494 (V) pixels
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Scanning	525 lines, 60 fields, 30 frames
Horizontal	15.734 kHz
Vertical	59.94 Hz

PAL

Effective Pixels	752 (H) X 582 (V) pixels
Scanning	625 lines, 50 fields, 25 frames
Horizontal	15.625 kHz
Vertical	50 Hz

All Cameras

White Balance	Through the Lens (TTL) Auto Tracing White Balance (ATW)
Horizontal Resolution	470 TV Lines at center Imager.....1/4-inch interline CCD array (SONY) with Hitachi DSP 6
Scanning System	2:1 interlace
Video Output	1.0 Vp-p, 75 ohm composite
S/N Ratio	50 dB (Typical)
Minimum Illumination	Better than 0.5 lx (20 IRE, AGC) on 0.03 lx with 1/4 sec open shutter 0.01 lx in black and white IR mode 0.009 lx in black and white mode with 1/4 sec open shutter

Lens

Design	Aspherical
Aperture.....	F1.6
3.6 mm.....	54.0° (H) x 40.5° (V)
88 mm.....	2.5° (H) x 1.9° (V)
Focal Length	3.6 to 82.8 mm
Field of view Formulas	
Horizontal View = (0.8 x A)/B	
Vertical View = (0.6 x A)/B	
A = distance from camera in meters or feet	
B = zoom power (e.g. 1 - 242x)	

Mechanical

Height	302 mm (11.8 inch)
Diameter	216.8 mm (8.5 inch)
Weight	
Housing and dome drive	3.0 kg (6.6 lbs)
Wall Mount Pendant	4.3 kg (9.5 lbs)
Celing Mount Pendant	3.8 kg (8.4 lbs)

Environmental

Weatherproof Standard	IP 66
Operating Temperature	-40 °C to 60 °C (-40 °F to 140 °F)
Humidity	0 to 90 %RH (non condensing)
Storage Temperature	-5 °C to 50 °C (23 °F to 122 °F)
Air Pressure	86 kPa to 106 kPa (12 psig to 15 psig)

Certifications

CE, Class B
FCC, Class B